Patent Application Publication

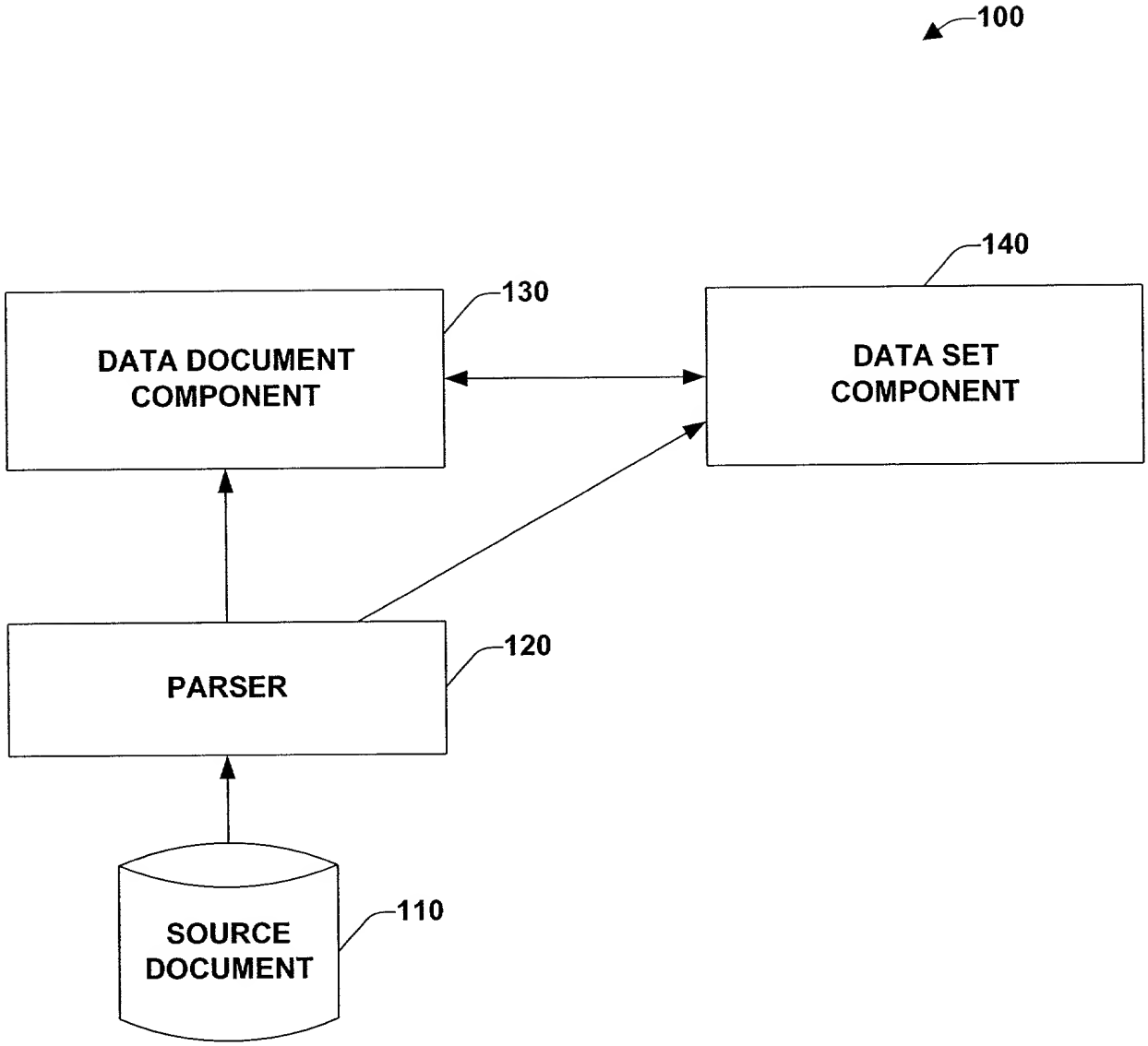
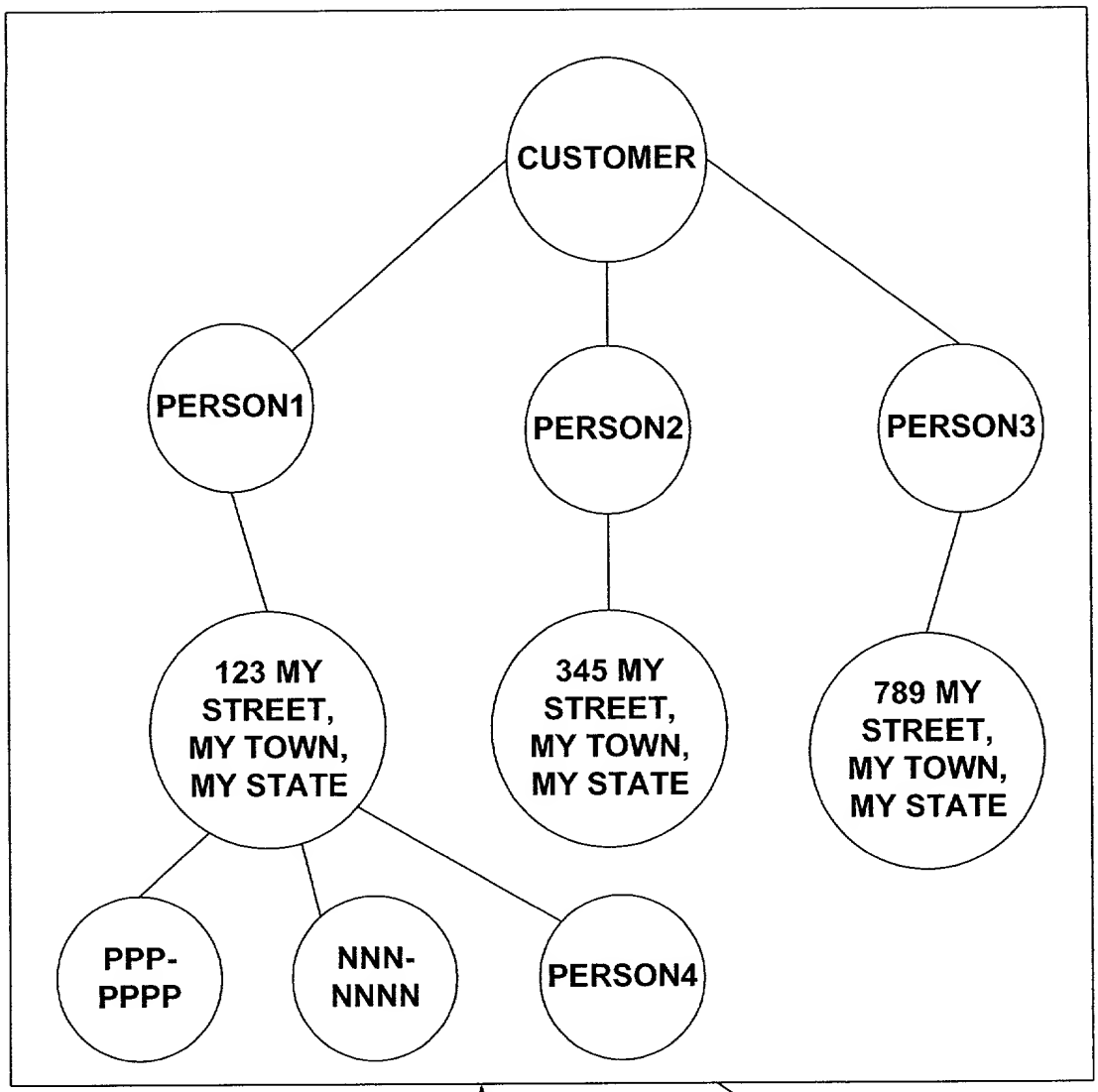


FIG. 1



DATA SET

CUSTOMER NAME	CUSTOMER FIRST NAME
PERSON1	123 MY STREET,MY TOWN, MY STATE
PERSON2	345 MY STREET,MY TOWN, MY STATE
PERSON3	789 MY STREET,MY TOWN, MY STATE

FIG. 2

4826455 06/29/04

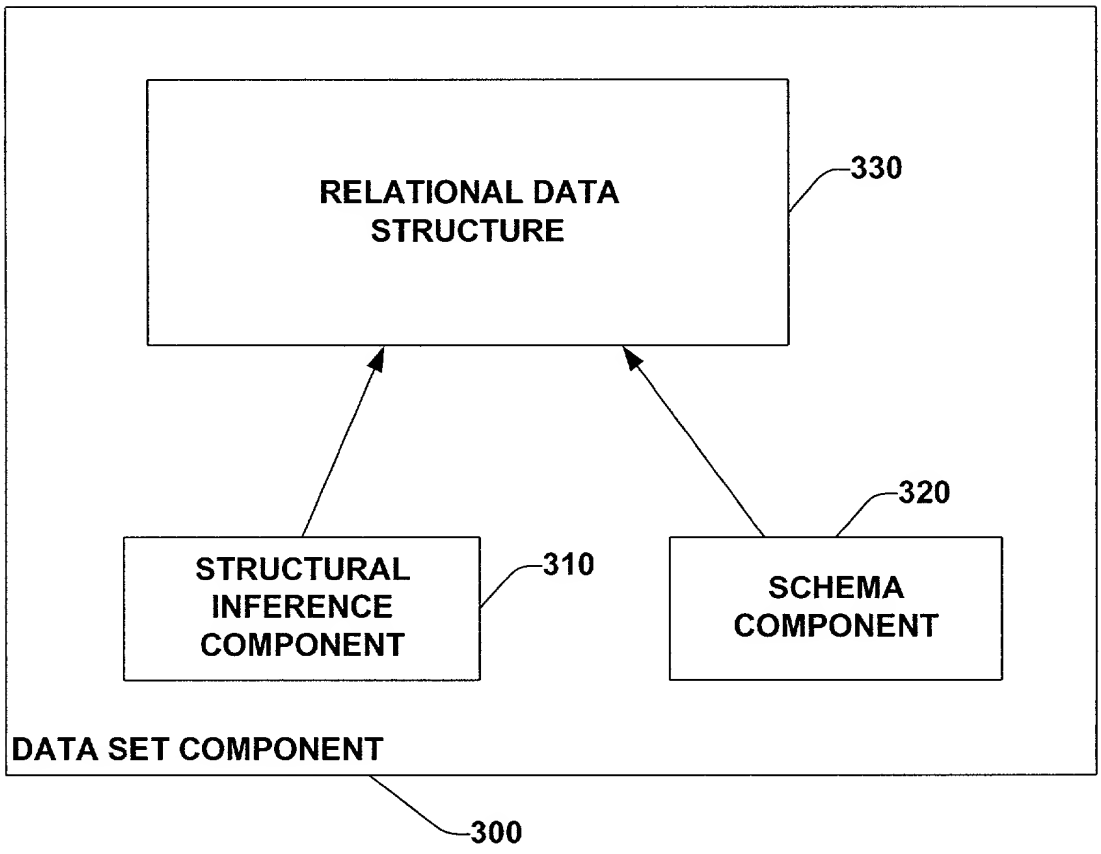


FIG. 3

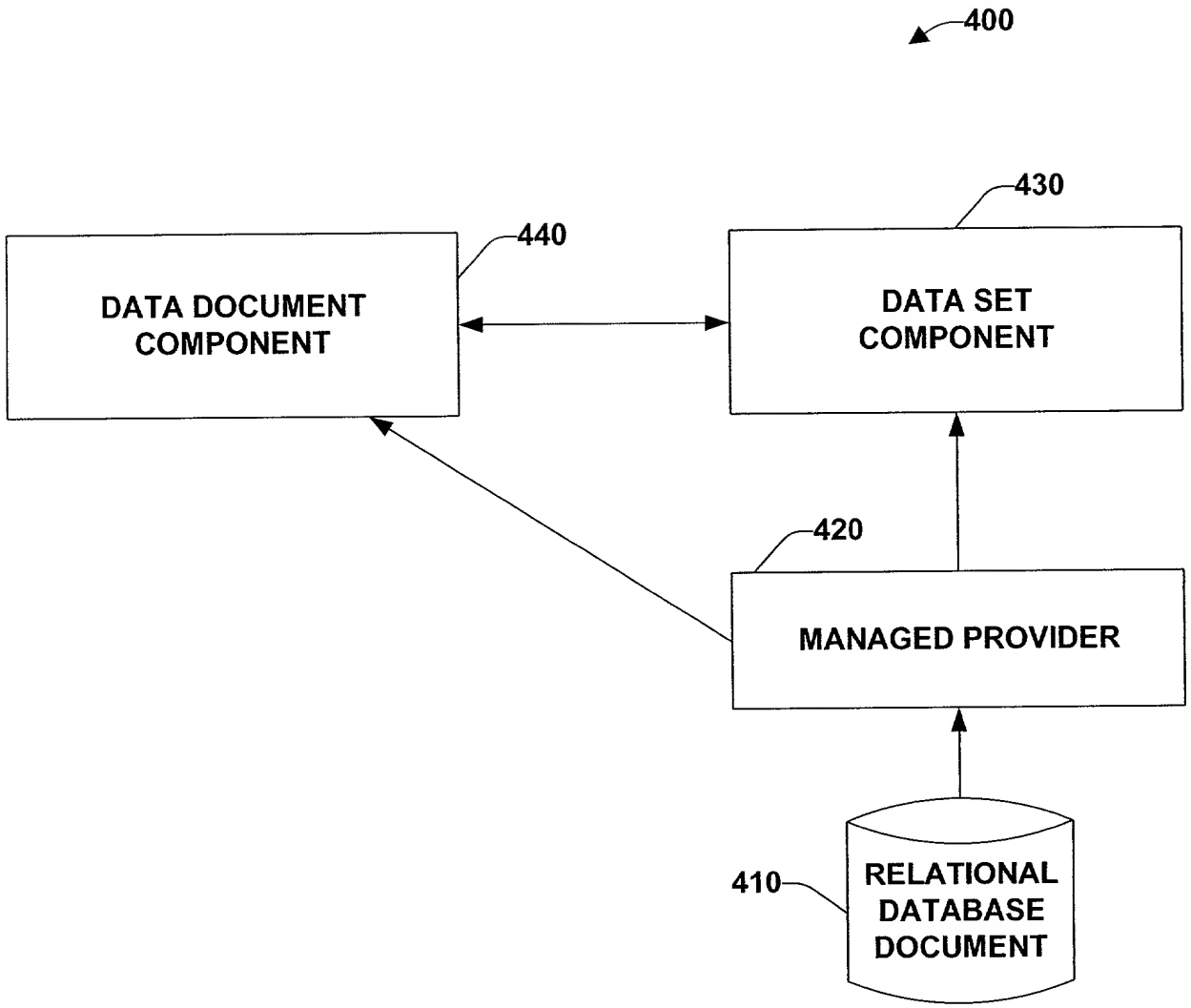

400
430
440
DATA DOCUMENT COMPONENT
DATA SET COMPONENT
420
MANAGED PROVIDER
410
RELATIONAL DATABASE DOCUMENT

FIG. 4

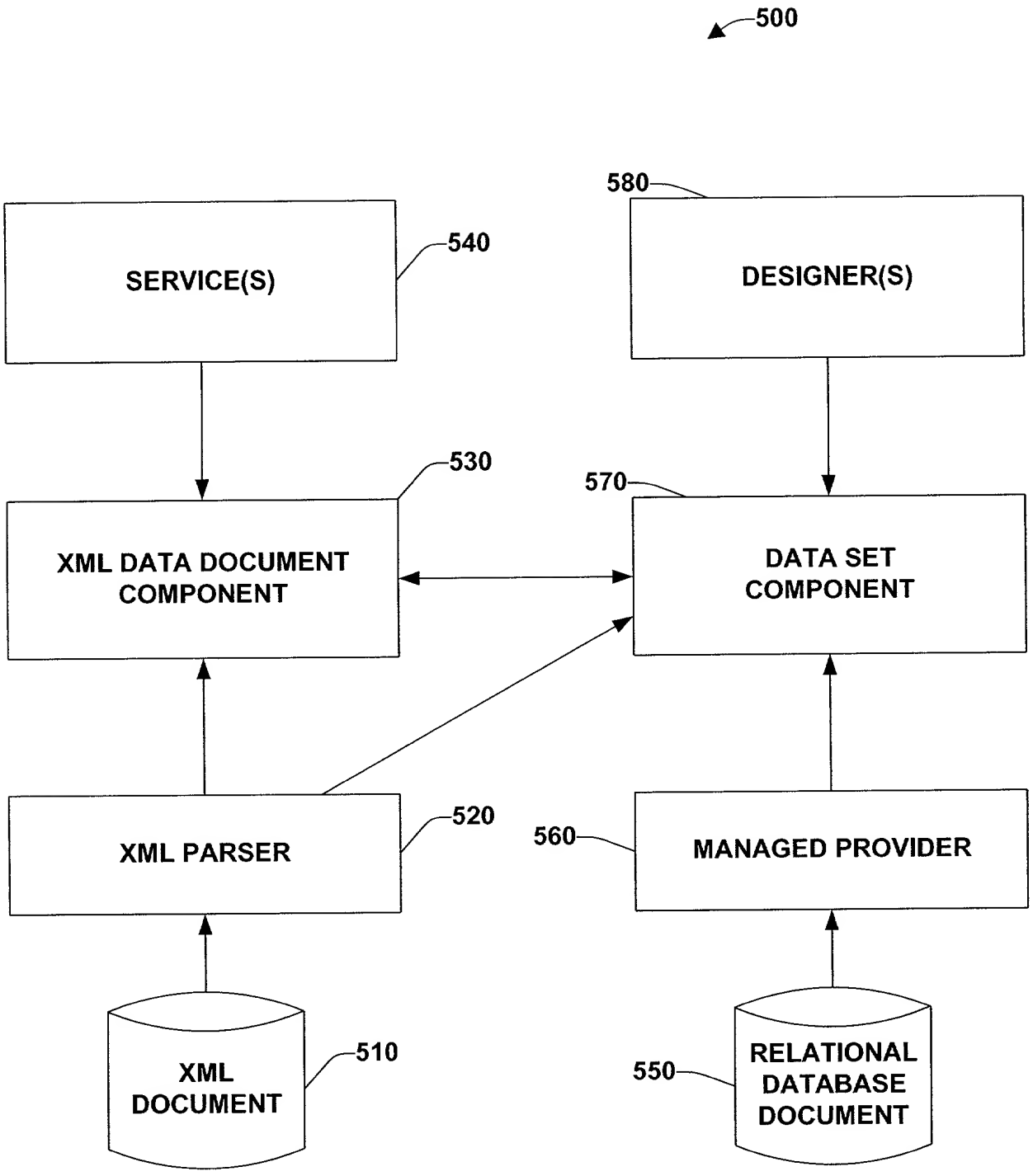

500
580
SERVICE(S)
540
DESIGNER(S)
530
570
XML DATA DOCUMENT COMPONENT
DATA SET COMPONENT
XML PARSER
520
560
MANAGED PROVIDER
XML DOCUMENT
510
550
RELATIONAL DATABASE DOCUMENT

FIG. 5

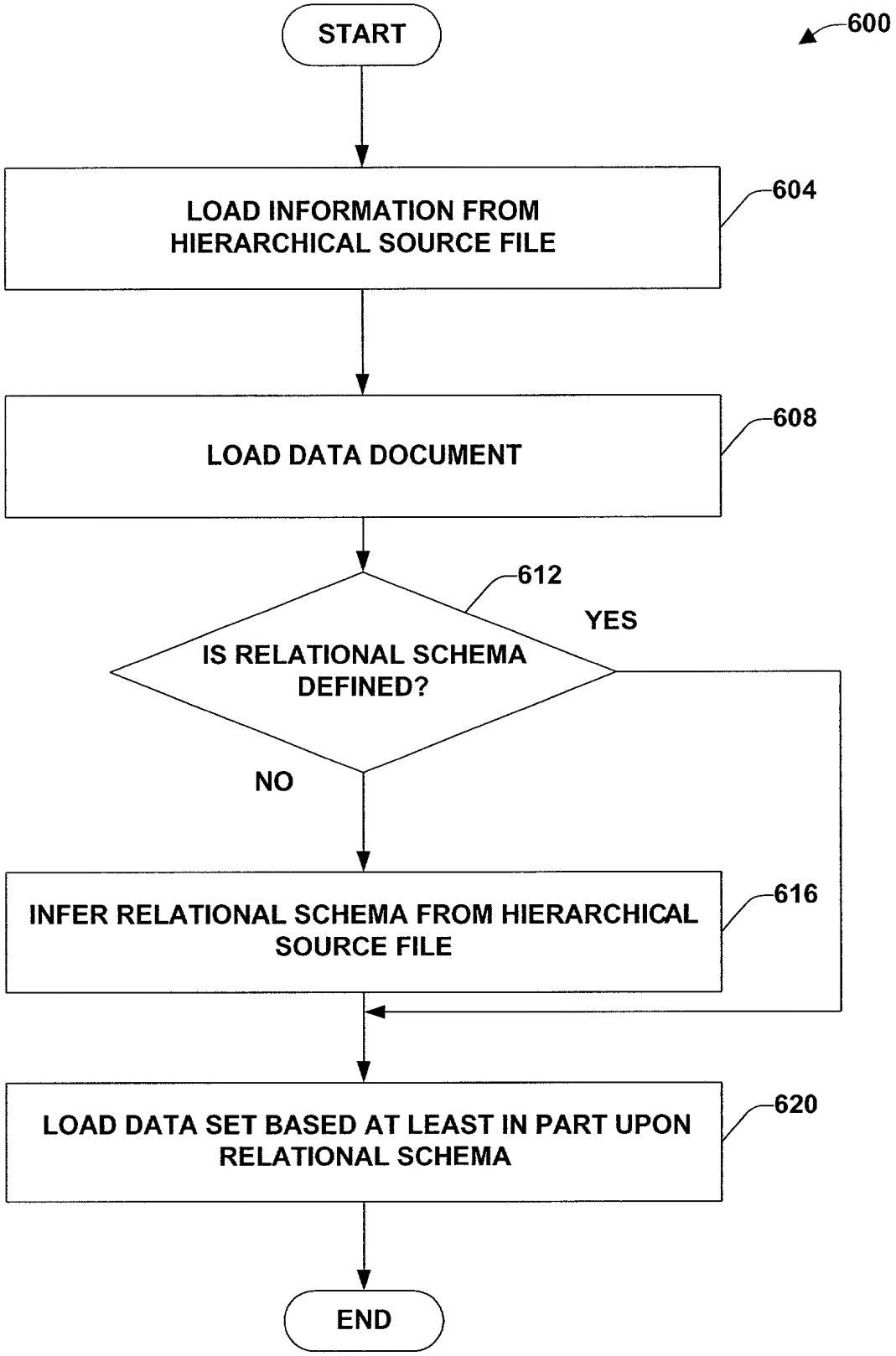

START
600
LOAD INFORMATION FROM HIERARCHICAL SOURCE FILE
604
LOAD DATA DOCUMENT
608
612
IS RELATIONAL SCHEMA DEFINED?
YES
NO
INFER RELATIONAL SCHEMA FROM HIERARCHICAL SOURCE FILE
616
LOAD DATA SET BASED AT LEAST IN PART UPON RELATIONAL SCHEMA
620
END

FIG. 6

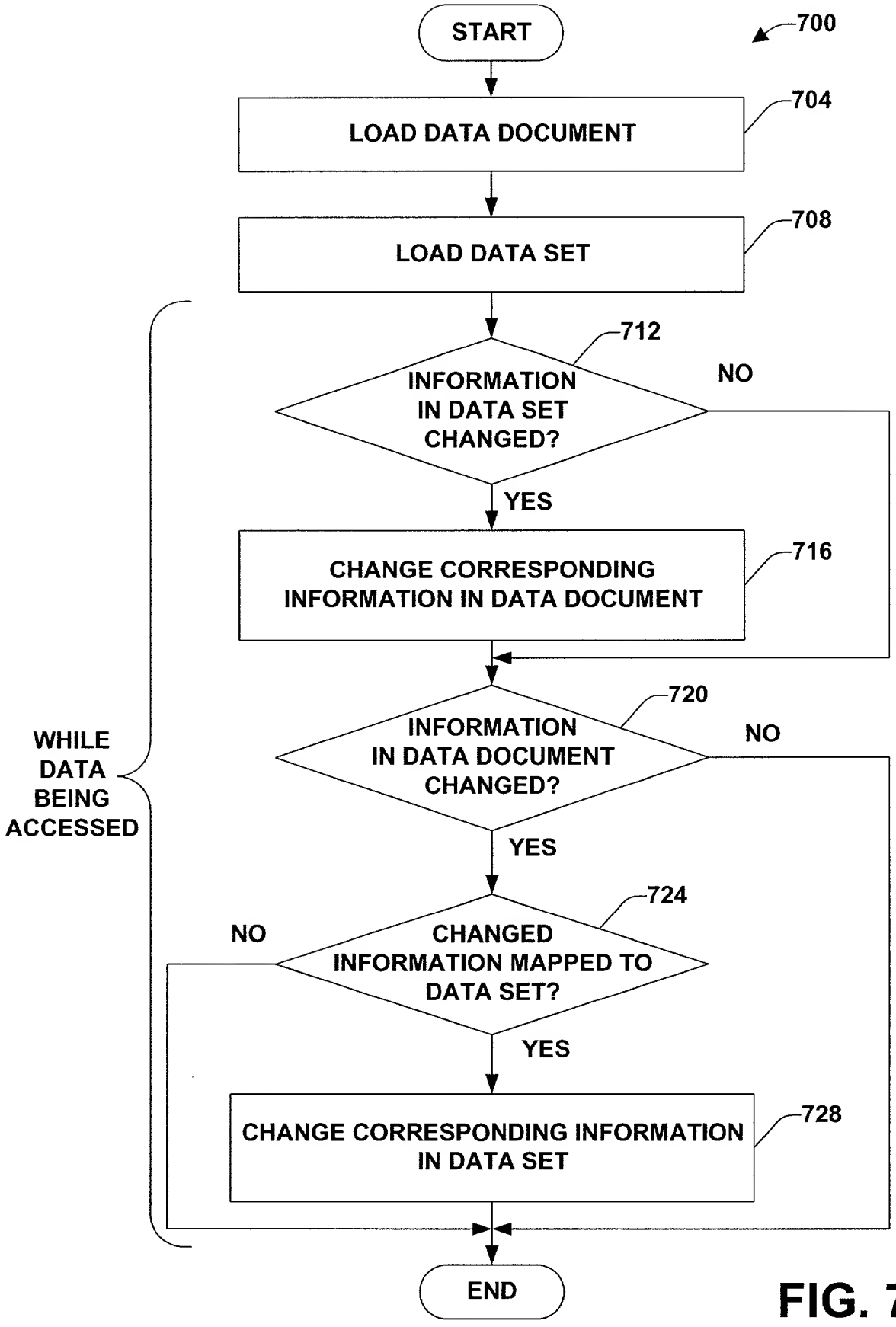


FIG. 7

Patent Application Publication

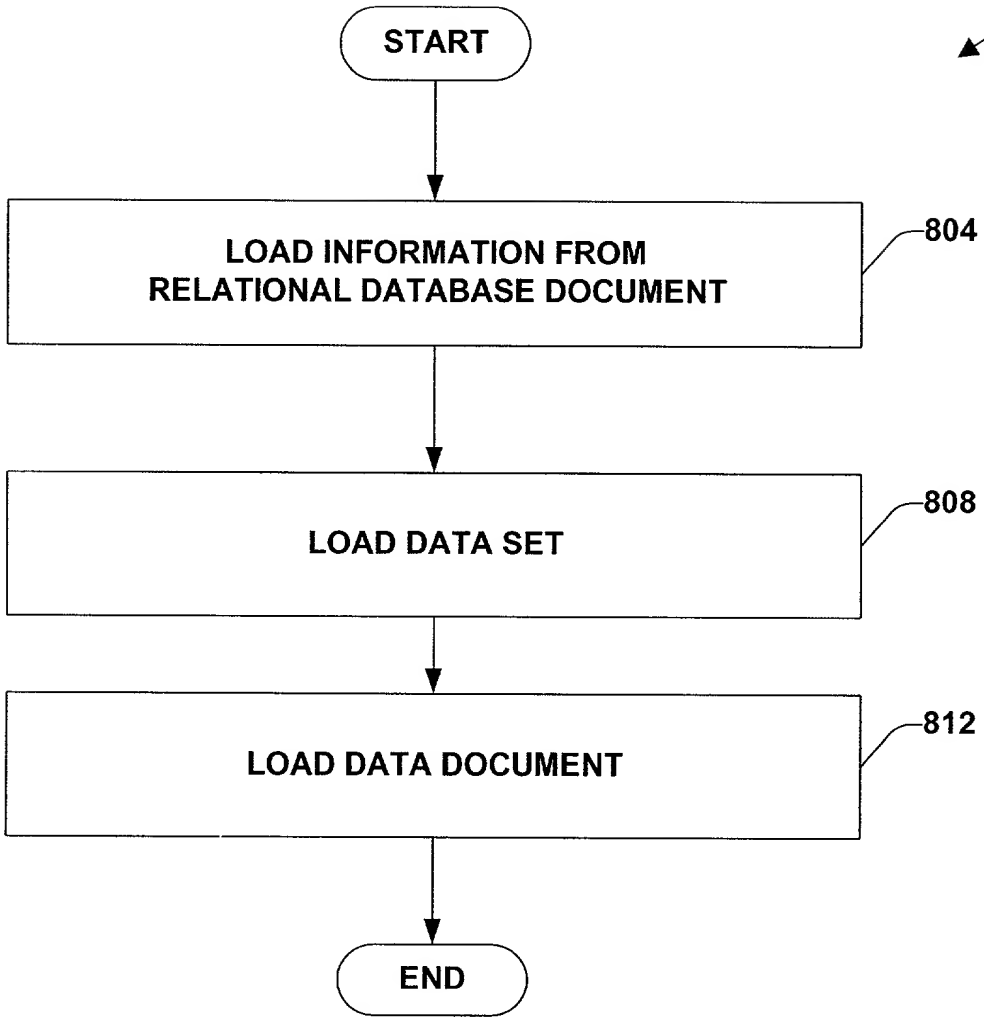

START
800
LOAD INFORMATION FROM RELATIONAL DATABASE DOCUMENT
804
LOAD DATA SET
808
LOAD DATA DOCUMENT
812
END

FIG. 8

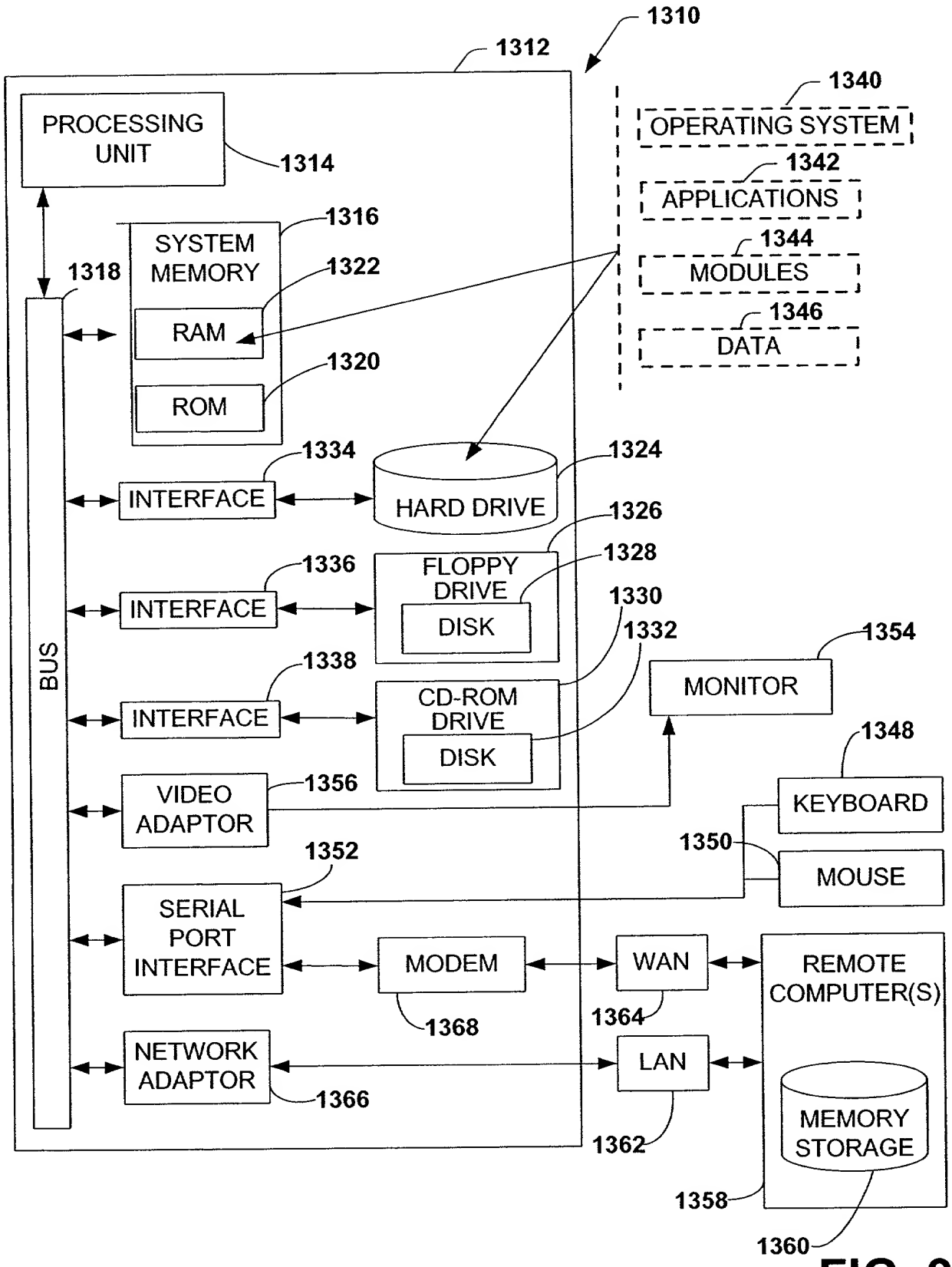

1310
1312
PROCESSING UNIT
1314
1340
OPERATING SYSTEM
1342
APPLICATIONS
1344
MODULES
1346
DATA
SYSTEM MEMORY
1316
1318
1322
RAM
1320
ROM
BUS
1334
INTERFACE
HARD DRIVE
1324
1326
1336
INTERFACE
FLOPPY DRIVE
1328
DISK
1330
1332
1338
INTERFACE
CD-ROM DRIVE
DISK
1354
MONITOR
1348
KEYBOARD
1350
MOUSE
VIDEO ADAPTOR
1356
1352
SERIAL PORT INTERFACE
MODEM
1368
WAN
1364
REMOTE COMPUTER(S)
NETWORK ADAPTOR
1366
LAN
1362
MEMORY STORAGE
1358
1360

FIG. 9

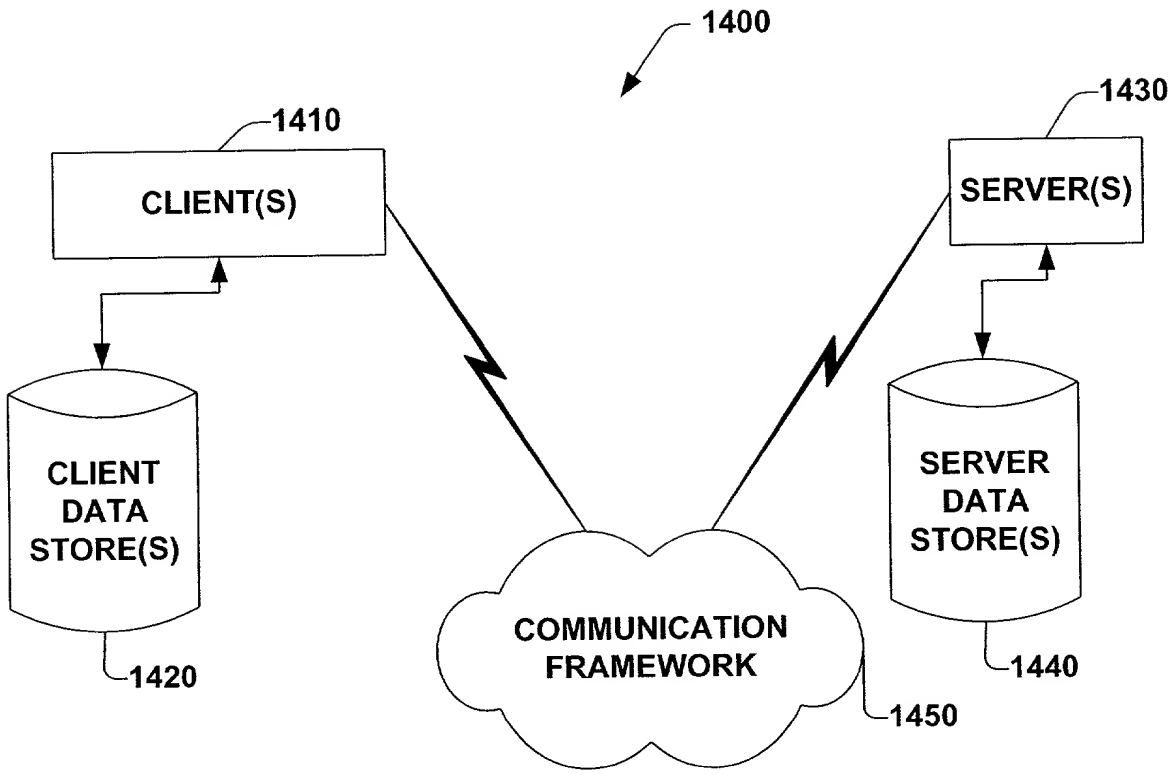

1400
1410
CLIENT(S)
1430
SERVER(S)
CLIENT DATA STORE(S)
1420
COMMUNICATION FRAMEWORK
1450
SERVER DATA STORE(S)
1440

FIG. 10